## **Claims**

- A preparation method of a polyamide thin film composite (TFC) reverse osmosis membrane using interfacial polymerization of an amine aqueous solution and amine-reactive compound, the preparation method comprising the steps of:

  (a) forming an polyamide active layer through interfacial polymerization by contacting a surface of a porous support with an amine aqueous solution containing a polyfunctional aromatic amine monomer and an organic solution containing polyfunctional acyl halide monomer as an amine-reactive compound; and
  - (b) performing post-treatment preceded by the forming of the polyamide active layer by contacting the polyamide active layer with an aqueous solution containing 0.1 to 100 wt% of polyfunctional tertiary alcohol amine.
- The preparation method of claim 1, wherein the polyfunctional aromatic amine monomer is selected from the group consisting of 1,4-phenylenediamine, 1,3-phenylenediamine, 2,5-diaminotoluene, diphenyldiamine, and 4-methoxy-m-phenylenediamine.
- The preparation method of claim 1, wherein the polyfunctional acyl halide monomer as the amine-reactive compound is selected from the group consisting of trimesoyl chloride (TMC), terephthaloyl chloride (TPC) and isophthalolyl chloride (IPC).
- [4] The preparation method of claim 1, wherein the polyfunctional tertiary alcohol amine comprises at least two tertiary amines having substituted alcohol group on the hydrocarbon side chains.
- [5] The preparation method of claim 1, wherein the polyfunctional tertiary alcohol amine is represented by the Formula 1 or 2:

## [Formula 1]

## [Formula 2]

